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Final

Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
2440 Stevens Center Place, Room 1200, Richland, Washington
February 16, 1995

FROM/APPROVAL: Donna Wanek Date 3/30/95
Donna Wanek, 200 Aggregate Area Unit Manager, RL (H4-83)

APPROVAL: Paul R. Beaver Date 4/3/95
Paul R. Beaver, 200 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: Dib Goswami Date 4/6/95
Dib Goswami, 200 Aggregate Area Unit Manager, WA Dept of Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

- | | | |
|---------------|---|--|
| Attachment #1 | - | Meeting Summary |
| Attachment #2 | - | Attendance Sheet |
| Attachment #3 | - | Agenda |
| Attachment #4 | - | Action Item Status List |
| Attachment #5 | - | Project Status of 200-BP-5 Groundwater Operable Unit |
| Attachment #6 | - | Project Status of 200-UP-1 Groundwater Operable Unit |
| Attachment #7 | - | Project Status of 200-ZP-2 Operable Unit, ERA Activity |
| Attachment #8 | - | Project Status of 200-ZP-1 Operable Unit |
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Prepared by: Jim Consort, Kay Kimmel Date: 29 March 1995
Jim Consort, Kay Kimmel, GSSC (B1-42)

Concurrence by: Joseph Zoghbi Date: 4/20/95
Joseph Zoghbi, ERC Project Manager - 200 Areas, (H6-07)

Attachment #1
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
February 16, 1995

Meeting and Summary of Commitments and Agreements

- 1. SIGNING OF THE PREVIOUS 200 AREA UNIT MANAGER'S MEETING MINUTES:**
Meeting minutes were available, however, not all signatures were obtained.

- 2. ACTION ITEM UPDATE. See Attachment 4 for status:**

2AAMS.13 Closed via cc:mail 02/14/95 from Donna Wanek.
2AAMS.19 Closed 02/16/95.
2BP5.2 Open.
2UP1.2 Closed via cc:mail 02/14/95 from Donna Wanek.
2UP1.3 Open.
2UP1.4 Closed via cc:mail 02/14/95 from Donna Wanek.
2ZP2.1 Closed via cc:mail 02/14/95 from Donna Wanek.

- 3. NEW ACTION ITEMS (INITIATED February 16, 1995):**

No new action items were initiated.

- 4. INFORMATION ITEMS:**

- Status 200-BP-5 Operable Unit - Dave Erb provided the status of BP-5 activities (Attachment #5).

216-BY System

The mini-column test will reach breakthrough after running continually for 10 to 12 days (2000-4000 bed volumes). Result of the mini-column test will be available by early March 1995. Donna Wanek gave information regarding the clinoptilolite to the regulators.

216-B-5 Reverse Well System

System is operating six days per week. No lithium bromide tracer detected to date; evaluating the possibility of using larger capacity extraction pump to provide greater stress for the test. Paul Beaver requested results from the samples taken before and after the test and the disposition of the spent resin. The spent resin will be characterized and disposed in the burial grounds. ERC anticipates that the spent resin will not require to be regulated since it will have a very low concentration of contaminants. EPA requested the test results and the data sheet for the resin disposal process.

- Status 200-UP-1 Operable Unit - Curt Wittreich provided status (Attachment #6).

The status was presented by Curt Wittreich. He indicated that the start-up of drilling will be delayed until April of 1995; completion is still scheduled August 1995. Paul Beaver asked about drilling costs; ERC indicated that a drilling contract will be awarded in April 1995 to an offsite contractor to reduce drilling costs from \$600 per foot. The Proposed Plan was submitted to DOE/RL for review; format is similar to 200-ZP-1.

Analytical data for the first three quarters of 1994 are now in the HEIS data base.

- Status 200-ZP-2 Operable Unit, ERA Activity - Sean Driggers provided the update (see Attachment #7).

All downtime was due to cold weather; problems fixed and operations are running around the clock. Approval for the well perforations expected by the end of March 1995. The Tunable Hybrid Plasma Vapor test was considered to be a success. A three month Purus Padre Vapor test is scheduled to begin in the middle of March.

- Status of 200-ZP-1 - Jhivaun Freeman-Pollard gave status (Attachment #8).

Pilot Scale Treatability Test

Treatability test report scheduled to be submitted to DOE/RL April 19, 1995. Currently testing the granular activated carbon (GAC) to determine how much is spent.

Groundwater Monitoring

March 1, 1995 is the next scheduled round of sampling. Semi-annual monitoring is in the planning process and a meeting will be scheduled to discuss reducing the amount of sampling, review DNAPL and DOW comments. Meeting is scheduled tentatively for Thursday February 23, 1995.

IRM Implementation

DOW and the DNAPL report is being revised based upon DOE/RLs comments

Technology Demonstration

The iron filings program has been put on hold by DOE/RL since funding is not available.

**200 Aggregate Area Unit Manager's Meeting
Official Attendance Record
February 16, 1995**

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	MSIN	TELEPHONE
Dib Goswami	ECIOM	UM.		336-3015
Terry Chiaramonte	ERC	Sub. for K. Porter GW Project Lead	H6-01	376-2539
Regan Weeks	ERC	Regulatory Support Coordinator for 200A	H4-82	372-9089
Diana Sickle	BHI	Support	H4-79	(509) 375-9422
GEORGE CHEN	BHI	200 Area Source OU Team Lead	H6-07	376-1994
Donna Waneck	RL	200 Area GW OU Mgr	H4-83	376-5778
Bryan L. Foley	RL	200 Area Source OU Mgr	H4-83	376-7007
AVE TAYLOR	DEM	GW issues	B1-12	446-3690
Paul Beaver	EPA	Unit Mgr	B5-01	376-8665
Fenggang Ma	Ecology	Unit Manager	B5-18	376-3035
Gary Friedman	Ecology	oum	B5-1F	736-3026
Michael (Baker)	IT-Hanford	OU Team Lead	H6-01	376-2038
Bryan L. Foley	RL	200 Area Source		
GILBERT L. KASZA	ERC	GW SOURCE SUPPORT	H6-06	376-0763
MICHAEL D. BAKER	ITH	BPS- ASST. OU LEAD	H6-04	373-6862
David B. Erb	ITH	BP-5 Task Lead	H6-04	372-1402
HASSAN EL-BIETAR	BHI	TPA COORDINATOR	H4-79	372-9124
Kay Kimmel	MACTEC	RL SUPPORT	B1-42	946-3692
Salween Farooqui	" "	(LTD)	K8-50	372-4023
Chris Kramer	ITH	Biotech Demo	H6-04	376-9186
DAN PARKER	ITH	ZP-1 DNAPL	H6-02	372-1031
Thivian Friedman	ITH	ZP-1 Lead	H6-04	376-1882
Sean A. Driggers	ITH	ZP-2 Lead	H6-01	372-3493

Attachment #3
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
February 16, 1995

200 Area Activities

200-BP-5 - D. Erb

- * Action Item Status
- * General Status

200-UP-1 - Curtis Wittreich

- * Action Item Status
- * Characterization Program
- * Treatability Test Program

200-ZP-2 - Sean Driggers

- * Carbon Tetrachloride ERA

200-ZP-1 - J. Freeman-Pollard

- * Action Item Status
- * General Status

Attachment #4

Action Item Status List
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
February 16, 1995

ITEM NO.	ACTION	STATUS
2AAMS.13	Transmit the 200-UP-1 and 200-ZP-1 Treatability Test Plans and Mike Connelly's groundwater modeling studies for pump and treat to the regulators. Action: Paul Pak.	Closed 02/14/95.
2AAMS.19	Issue the outstanding 200 Areas UMM minutes for signature. Action: Donna Wanek.	Closed 02/16/95.
2UP1.2	Develop a treatability test plan for denitrification of 200-UP-1 groundwater at laboratory and bench scales, based on the 100 Area Treatability Test Plan for Nitrate. Action: Paul Pak.	Closed 02/14/95. Plan provided to regulators in November 1994.
2UP1.3	Provide regulators with laboratory results on sample point WL5 on October 14, 1994. Action: Bruce Ford.	Opened 09/28/94.
2UP1.4	Provide rationale from management on why documents cannot be sent to the USGS. This issue to be dealt with on the PM level and tracked at UM level.	Closed 02/14/95.
2BP5.2	Provide date on streamlining the groundwater sampling effort. Action: Joe Zoghbi	Opened 09/28/94.
2ZP2.1	EPA and Ecology require that RL submit within 10 days a draft change package to establish milestones for the 200-ZP-2 vapor extraction system, or transmit the proposed plan. Action: Bryan Foley and Jennifer Young.	Closed 02/14/95.

UNIT MANAGERS MEETING

200-BP-5 OPERABLE UNIT

D. B. ERB

February 16, 1995

PL513 - CHARACTERIZATION

- * DATA VALIDATION - EXPECTED COMPLETION DATE OF 2/28/95**
- * A REVIEW OF CHARACTERIZATION PROGRAM IS UNDERWAY AND MAY LEAD TO DELETIONS OF WELLS AND REDUCTIONS IN SAMPLING FREQUENCY.**

PL515 - TREATMENT**GENERAL**

- * TREATABILITY TEST REPORT DUE TO DOE BY 5/10/95 - EXPECT TO HAVE NECESSARY DATA, INCLUDING MINI-COLUMN TEST DATA AT BOTH SITES, FOR REPORT BY MID-APRIL.**

PL515 - TREATMENT

#5/Page 3 of 5

216-BY SYSTEM

- * SINCE RESUMING OPERATIONS ON 1/18, OVER 56,000 GALLONS HAVE BEEN TREATED.**
- * TOTAL TREATMENT TO DATE GREATER THAN 75,000 GALLONS.**
- * Tc-99 INFLUENT CONCENTRATION IS ~5,000 pCi/L. TREATMENT REMOVES Tc-99 TO LEVELS LESS THAN 222-S LABS DETECTION LEVEL (~ 78 pCi/L), BASED ON 2/6/95 RESULTS.**
- * MINI-COLUMN TEST PLAN UNDERGOING PRELIMINARY INTERNAL REVIEW. MOST MATERIALS ARE AVAILABLE ON SITE.**

216-B-5 REVERSE WELL SYSTEM

#5/Page 4 of 5

- * SINCE RESUMING OPERATIONS ON 1/17, OVER 270,000 GALLONS OF WATER HAS BEEN PROCESSED, INCLUDING ~150,000 GAL DURING TRACER TEST.**
- * TOTAL PRODUCTION TO DATE IS ~310,000 GALLONS.**
- * TRACER TEST AT 299-E28-23 STARTED ON 2/6 AND COMPLETED ON 2/11 FOLLOWING 116 HRS OF CONTINUOUS OPERATION (2 - 12 HR SHIFTS/DAY)**
- * Sr-90, Cs-137, AND Pu-239/240 INFLUENT CONCENTRATIONS ARE ~ 4,500 pCi/L, 1,570 pCi/L AND < 17 pCi/L, PER 2/8/95 ANALYSIS.**
- * TREATED EFFLUENT LEVELS FOR Sr-90, Cs-137 & Pu-239/240 ARE 848 pCi/L, < 59 pCi/L, AND < 2.4 pCi/L, PER 2/8/95 ANALYSIS.**
- * MINI-COLUMN TEST PLAN RELEASED. TESTING STARTED UP ON 1/27 WITH BATCH EQUILIBRIUM TESTS AND MINI-COLUMN TEST BEGUN ON 2/3. NO RESULTS YET.**
- * BREAKTHROUGH OBSERVED FROM PROCESS CONTROL DATA OF 1/26 WITH ~55,000 GALLONS TREATED. DATA IS BEING EVALUATED.**

PL526 - REMEDIATION

#5/Page 5 of 5

216-B-5 REVERSE WELL PLUME

- * FEB 6-10, 1995 TRACER TEST SHOWED SMALL INCREASES ABOVE BACKGROUND IN LiBr FROM THE INITIAL TANK CONCENTRATION INJECTED TO AQUIFER. MONITORING WITH OPERATIONS CONTINUES TO CAPTURE TAIL OF CONTAMINANT.**
- * EVALUATING A 2nd TRACER TEST AT 299-E28-24 WELL. EVALUATING INSTALLING A LARGER EXTRACTION WELL PUMP.**

216-BY CRIBS PLUME

- * REMEDIATION AT 699-55-57 WELL**
 - FOLLOWING WELL PERFORATION WITH EXPLOSIVE CHARGES, 4" WELL SCREEN INSTALLED ON 1/18/95 TO STOP FLOW OF RUNNING SAND. WELL HAS BEEN JETTED SEVERAL TIMES AND FINAL SURGE AND PURGE TO BE CONDUCTED 2/20-24/95.**
 - AQUIFER PRODUCTIVITY TEST WITH CONCURRENT SAMPLING TO BE CONDUCTED IN LATE FEBRUARY. SAMPLING FOR 699-55-60A WELL SCHEDULED FOR SAME TIMEFRAME.**

**200-UP-1 GROUNDWATER OPERABLE UNIT
UNIT MANAGERS MEETING
FEBRUARY 16, 1995**

Attachment #6

Page 1 of 2

9513339.2102

AGENDA

- CHARACTERIZATION
 - GROUNDWATER MONITORING STATUS
 - FY 95 LFI Groundwater Monitoring Matrix Updated
 - First Quarter LFI Wells Sampled
 - WELL INSTALLATION STATUS
 - Procurement of Drilling Subcontractor Ongoing
 - Drill Pads under Construction
 - Description of Work Redlined Based on DOE/Regulator Review
- TREATABILITY TESTING
 - TREATABILITY TEST REPORT STATUS
 - DOE Comments Received; Awaiting Regulatory Comments
 - PILOT-SCALE SYSTEM STATUS
 - Treated over 1,600,000 Gallons Groundwater
 - LAB-SCALE TEST STATUS
 - Bench-Scale Biotenitrification Test (Knoxville) Ongoing
- IRM PROPOSED PLAN
 - Draft Submitted to DOE

9513339.2103

**February 16, 1995 Unit Managers Meeting
Project Status of the 200-ZP-2 Operable Unit**

ERA STATUS

- **Current Status of Vapor Extraction Operations**
 - Weekly summary for the week 02/02/95 through 02/08/95
- **Wellfield Expansion**
 - Fieldwork to complete general well maintenance is scheduled to begin 02/21/95
 - Jet perforation of 21 wells to follow pending approval of a change request
- **Secondary Containment Upgrades**
 - Designs for secondary containment of water knock-out tanks completed
 - Procurement started and installation is planned for end of March

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**February 16, 1995 Unit Managers Meeting
Project Status of the 200-ZP-2 Operable Unit**

ERA STATUS (Cont.)

- Data Management Upgrades
 - Automated data reporting system installed at the 1500 cfm unit
 - Evaluating vendor's proposal for automating data reporting at the other systems

951339.2105

**February 16, 1995 Unit Managers Meeting
Project Status of the 200-ZP-2 Operable Unit**

Technology Demonstrations Status

- **Tunable Hybrid Plasma Vapor Treatment System**
 - Demonstration testing completed on 02/06/95
 - System disconnected and returned to MIT on 02/13/95
 - Test report expected mid-March

- **Purus Padre Vapor Treatment System**
 - Continuing work on test plan and installation design for mid-March startup

3. Carbon Tetrachloride Extraction Data

200-ZP-2 ERA WEEKLY CCL₄ EXTRACTION SUMMARY

Operational Period	VES System (cfm)	Avg. Flow (scfm)	Avg. Conc. (ppmv)	Time (hrs)	System Availability (percent)	CCl ₄ Extracted kg/(lbs)	1995 YTD Total kg/(lbs)	1994 Total kg/(lbs)	1993 Total kg/(lbs)	1992 Total kg/(lbs)	Grand Total as of: 2/1/95
2/2-2/8 1995	<u>Z-18</u> 500	386	52	38.25	23%	8.0 (17.6)	<u>Z-1A/18</u> 345 (760)	<u>Z-1A/18</u> 8,757 (19,266)	<u>Z-1A/18</u> 2,541 (5,590)	<u>Z-1A/18</u> 959 (2,111)	<u>Z-1A/18</u> 12,602 (27,727)
	<u>Z-1A</u> 1000	540	170	158	94%	158 (347)					
	<u>Z-9</u> 1500	814	261	132	78%	301 (663)	<u>Z-9</u> 1,540 (3,388)	<u>Z-9</u> 35,029 (77,065)	<u>Z-9</u> 1,065 (2,342)	<u>Z-9</u> -	<u>Z-9</u> 37,634 (82,795)
					Weekly Total =>	467 (1028)				Project Total =>	50,236 (110,522)

Unit Manager's Meeting: 200-ZP-1 Operable Unit
February 16, 1995

1. PILOT SCALE TREATABILITY TEST

- Status - Extracted 871,871 gallons
Treated 871,041 gallons
Injected 850,951 gallons

2. TECHNOLOGY DEMONSTRATION - BIOREMEDIATION

- Status - Phase I circulation was commenced on 2/6/95 and will continue through 3/31/95. Phase II procedures are undergoing internal review.

3. GROUNDWATER MONITORING

- Status - Dan Parker

4. FORECASTED AND OTHER ACTIVITIES

- Treatability Test Report

Review of the treatability test report (by ERC) will commence on February 27, 1995.

- 200-ZP-1 IROD

The IROD is undergoing a final revision and is excepted to be issued in March 1995.

- IRM Implementation

The description of work (DOW) (BHI-00155) and the DNAPL report (BHI-00152) are being revised per EPA and Ecology Comments.

A meeting will be scheduled to discuss the finalized DOW and DNAPL report with EPA and Ecology.

- Technology Demonstrations - Iron Filings

Iron filings - On hold

Distribution

**Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
February 16, 1995**

Donna Wanek	DOE-RL, PRD (H4-83)
Jennifer Young	DOE-RL, PRD (H4-83)
Mary Harmon	DOE-HQ (EM-442)
Richard Person	DOE-HQ (EM-442)
Paul Beaver	200 Aggregate Area Manager, EPA (B5-01)
Dennis Faulk	EPA (B5-01)
Dave Einan	EPA (B5-01)
Bill Lum	USGS, Support to EPA
Jim Pankanin	PRC, Support to EPA
Dib Goswami	WDOE (Kennewick)
Larry Goldstein	WDOE (Lacey)
Lynn Albin	Washington Dept. of Health
Joe Zoghbi (Please route to:)	ERC (H6-07)
M.J. Galgoul	ERC (H6-01)
George Henckel	ERC (H6-07)
Curt Wittreich	ERC (H6-02)
Dave Erb	ERC (H6-01)
Jhivaun Freeman-Pollard	ERC (H6-04)
Dan Parker	ERC (H6-02)
Sean Driggers	ERC (H6-01)
Ken Porter	ERC (H6-01)
Diana Sickie	ERC (H4-79)
Kay Kimmel	MAC (B1-42)
Alvina Goforth	ERC (H6-08)
Regan Weeks	ERC (H6-03)
Andrea Hopkins	ERC (H4-79)
Tom Page (Please route to:)	PNL (K1-31)
Cheryl Thornhill	PNL (K9-14)
Mark Hanson	PNL (K9-02)
Steve Slate	PNL (K9-14)
Bill Stillwell	PNL (K9-09)
Ben Johnson	PNL (K9-70)

Original Sent To: ADMINISTRATIVE RECORD: 200 AAMS Care of EDMC, WHC (H6-08)

Please inform Kay Kimmel (946-3692) GSSC - Mactec/Dames & Moore (B1-42) of deletions or additions to the distribution list. Last updated 03/21/95.